

CD164 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P75618
Synonyms:	Sialomucin core protein 24; MUC-24; Endolyn; MGC-24; CD164
Species:	Rat
Source:	HEK293
Accession:	Q9QX82 (Q24-D160)
Gene ID:	83689
Molecular Weight:	Approximately 90-120 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p>Q S N S S A S P N V T D P P T T T S K V V P T T L T T T K P P E T C E S F N S C</p> <p>V S C V N A T L T N N I T C V W L D C H E A N K T Y C S S E L V S N C T Q K T S</p> <p>T D S C S V I P T T P V P T N S T A K P T T R P S S P T P T P S V V T S A G A T</p> <p>N T T V T P T S Q P E R K S T F D</p>
Biological Activity	When Recombinant Rat CD164 Protein is immobilized at 2 µg/mL (100 µL/well) can bind Anti-CD164 antibody. The ED ₅₀ for this effect is 15.05 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD164 protein is a sialomucin that potentially plays a crucial role in hematopoiesis and may also be involved in cell adhesion. It exerts its influence on myogenesis by enhancing CXCR4-dependent cell motility and positively regulates the migration of myoblasts. Additionally, CD164 protein promotes the fusion of myoblasts into myotubes, a process that is analogous to other similar proteins. Notably, it interacts with CXCR4, further emphasizing its significance in various cellular activities related to muscle development and function.
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Caution: Product has not been fully validated for medical applications. For research use only.

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